

What is claimed:

1. A portable mud pumping apparatus comprising:

a material bin having downward sloping sides and a bottom section;

5 an auger in said bottom section of said material bin;

a pump assembly having a pump chamber and a pump ram for drawing mud into said pump chamber and pushing said mud out of said pump chamber; and

10 a hydraulic cylinder connected to said pump assembly so as to drive said pump ram.

2. A portable mud pumping apparatus as in claim 1 further comprising a one-way valve assembly between said material bin and said pump assembly.

15 3. A portable mud pumping apparatus as in claim 2 wherein said auger is bidirectional.

4. A portable mud pumping apparatus as in claim 3 wherein said pump comprises a plurality of pump chambers, each of said pump chambers having a pump ram driven by said hydraulic cylinder.

20 5. A portable mud pumping apparatus as in claim 4 further comprising a hydraulic pump connected to said auger and said hydraulic cylinder.

6. A portable mud pumping apparatus as in claim 5 further comprising a portable engine connected to said hydraulic pump.

7. A portable mud pumping apparatus as in claim 6 further

comprising a mud delivery hose connected to said pump assembly.

8. A portable mud pumping apparatus as in claim 7 wherein said apparatus is truck mounted.

9. A portable mud pumping apparatus having a holding bin

5 attached to a mud pump assembly said mud pump assembly comprising:

a plurality of pump chambers, each of said pump chambers having a pump ram extending out of each of said pump chamber;

10 a primary hydraulic cylinder having a hydraulic cylinder ram extending out of said cylinder;

a pump ram cap fixedly attaching said pump rams and said hydraulic cylinder ram such that said pump rams and said hydraulic cylinder ram operate in unison; and

15 a pump manifold connecting each of said pump chambers to said holding bin.

10. A mud pump assembly as in claim 9 wherein said pump manifold further comprises a forward one way valve that controls the flow of mud from said holding bin into said pump assembly.

20 11. A mud pump assembly as in claim 10 wherein said manifold further defines a manifold pipe having an attached mud delivery hose.

12. A mud pump assembly as in claim 11 wherein said pump manifold further comprises a rearward one way valve that controls the flow of mud from said pump assembly to said mud

delivery hose.

13. A mud pump assembly as in claim 12 further comprising a hydraulic pump attached to said hydraulic cylinder.

14. A portable truck mounted mud pumping apparatus comprising:

5 a material bin having downward sloping sides and a bottom section;

an auger in said bottom section of said material bin;

a pump assembly having a pump chamber and a pump ram for drawing said mud into said pump chamber and pushing said mud out
10 of said pump chamber;

a hydraulic cylinder connected to said pump assembly so as to drive said pump ram;

a hydraulic pump; and

a hydraulic control manifold having a plurality of attached
15 hydraulic lines so as to interconnected said auger and said hydraulic cylinder and said hydraulic pump.

15. A portable truck mounted mud pumping apparatus as in claim 14 wherein said pump comprises a plurality of pump chambers, each of said pump chambers having a pump ram driven by said hydraulic
20 cylinder.

16. A portable truck mounted mud pumping apparatus as in claim 15 further comprising a pump ram cap fixedly attaching said pump rams and said hydraulic cylinder ram such that said pump rams and said hydraulic cylinder ram operate in unison

17. A portable truck mounted mud pumping apparatus as in claim 16 further comprising a pump manifold connecting each of said pump chambers to said holding bin.

18. A portable truck mounted mud pumping apparatus as in claim 17 wherein said pump manifold further comprises a forward one way valve that controls the flow of mud from said holding bin into said pump assembly.

19. A portable truck mounted mud pumping apparatus as in claim 18 wherein said manifold further defines a manifold pipe having an attached mud delivery hose.

20. A portable truck mounted mud pumping apparatus as in claim 19 wherein said pump manifold further comprises a rearward one way valve that controls the flow of mud from said pump assembly to said mud delivery hose.